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(858-535-9001)

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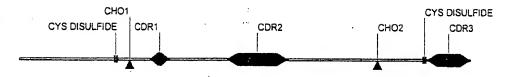
Figure 1. Alignment of Thy-1 and 8E5 VH

Ecfv-1.15* 8E5 VH Thy1 human Consensus	(1) (1) (1)	1 50
EcFv-1.15* 8E5 VH	(33)	HWVKQRPGQGLEWIGTEDPANSYTSYNQNEKDKA
Thyl human	(51)	EESLTRETKKHVLFSTGGVPEHTYRSRTRETSKYHMKVLYLSAFTSKEES
Consensus	(51)	F R GTI D NF KD A
		101 150
EcFv-1.15* 8E5 VH	(67)	ELEVDKPSSTAYMOLSSLTFGDSAVYFCAREGYYRYYFDYNGHGTTLTV
Thyl human	(101)	TYTCALHHSGHSPPTSSQNVTVLRDKLVKCSS SLLAQNTSWLLLLLES
Consensus	(101)	TT S ISS EGI W LSL
·		151 161
EcFv-1.15* 8E5 VH	(117)	SSAKTOPKE
Thyl human	(151)	SLLQAMDFMSL
Consensus	(151)	S T L

Figure 1B. Design of a single Ig domain CDR binding polypeptide based on the Thy-1 structure.

Qvsrgqkvtsltaclvdqslrldcrhentsssnywm Hfsltretkkhvlfgtidpadsytsynqnfkdegtytc Alhhsghsppissqnvtvlrdklvkcegvyyryyfdy

Figure 1C. Diagram of a single Ig domain CDR carrier based on the Thy-1 structure.

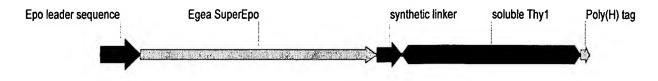


Thy1/8E4 VH synthetic CDR binding polypeptide 111 aa

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FIGURE 2A



Egea F12 Thy-1 Epo 334 aa

FIGURE 2B

1	MGVHECPAWL	WLLLSLLSLP	LGLPVLGAPP	RLICDSRVLE	RHLLEAKEAE
51	SITTGCVEDC	SLNENITVPD	SKVNFYAWKR	MEVGQQAVEV	WQGLALLSEA
101	VLRGQALLVI	SSQPWEPLQL	HVDKAVSGLR	SLTTLLRALG	AQKEAISPPD
151	AASAAPLRTI	${\tt TADTFRKLFR}$	VYPNFLRGKL	KFYTGEACRG	GGGGSGGGE
201	FGGGGSQKVT	SLTACLVDQS	LRLDCRHENT	SSSPIQYEFS	LTRETKKHVL
251	FGTVGVPEHT	YRSRTNFTSK	${\tt YHMKVLYLSA}$	FTSKDEGTYT	CALHHSGHSP
301	PISSONVTVL	RDKLVKCEGI	SLLAONTSHH	HHHH	

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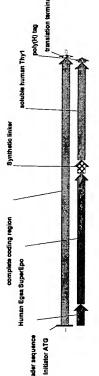
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FIGURE 2C

HindIII

	~~~~
	M G V H E C P A W L W L L S L L S L P
1	GATTGGCGAA GCTTGGAGGA ATGGGCGTGC ACGAGTGCCC CGCCTGGCTG TGGCTGCTGC TGAGCCTGCT GAGCCTGCCC
	LGLP V LG A P P R L I C D S R V L E R H L L E A K
81	CTGGGCCTGC CCGTGCTGGG CGCCCCCCC CGGCTGATCT GCGACAGCCG GGTGCTGGAG CGGCACCTGC TGGAGGCCAA
	· EAE SITT G C V E D C S L N E N I T V P D S K V N
161	GGAGGCCGAG AGCATCACCA CCGGCTGCGT GGAGGACTGC AGCCTGAACG AGAACATCAC CGTGCCCGAC AGCAAGGTGA
	· FYA W K R M E V G Q Q A V E V W Q G L A L L S E A
241	ACTTCTACGC CTGGAAGCGG ATGGAGGTGG GCCAGCAGGC CGTGGAGGTG TGGCAGGGCC TGGCCCTGCT GAGCGAGGCC
	V L R G Q A L L V I S S Q P W E P L Q L H V D K A V S
321	GTGCTGCGGG GCCAGGCCCT GCTGGTGATC AGCAGCCAGC CCTGGGAGCC CCTGCAGCTG CACGTGGACA AGGCCGTGAG
	·G L R S L T T L L R A L G A Q K E A I S P P D A A S A
401	CGGCCTGCGG AGCCTGACCA CCCTGCTGCG GGCCCTGGGC GCCCAGAAGG AGGCCATCAG CCCCCCCGAC GCCGCCAGCG
	· A P L R T I T A D T F R K L F R V Y P N F L R G K L
481	CCGCCCCCT GCGGACCATC ACCGCCGACA CCTTCCGGAA GCTGTTCCGG GTGTACCCCA ACTTCCTGCG GGGCAAGCTG
	K F Y T G E A C R G G G G G G G G G G G G G G G G G G
561	AAGTTCTACA CCGGCGAGGC CTGCCGGGGC GGCGGCGGCG GCAGCGGCGG CGGCGGCGAG TTCGGCGGCG GCGGCAGCCA
	· K V T S L T A C L V D Q S L R L D C R H E N T S S S P
641	GAAGGTGACC AGCCTGACCG CCTGCCTGGT GGACCAGAGC CTGCGGCTGG ACTGCCGGCA CGAGAACACC AGCAGCAGCC
	· I Q Y E F S L T R E T K K H V L F G T V G V P E H T
721	CCATCCAGTA CGAGTTCAGC CTGACCCGGG AGACCAAGAA GCACGTGCTG TTCGGCACCG TGGGCGTGCC CGAGCACACC
	Y R S R T N F T S K Y H M K V L Y L S A F T S K D E G
801	TACCGGAGCC GGACCAACTT CACCAGCAAG TACCACATGA AGGTGCTGTA CCTGAGCGCC TTCACCAGCA AGGACGAGGG
	· T Y T C A L H H S G H S P P I S S Q N V T V L R D K L
881	CACCTACACC TGCGCCCTGC ACCACAGCGG CCACAGCCCC CCCATCAGCA GCCAGAACGT GACCGTGCTG CGGGACAAGC
	BamHI
	~~~~
	· V K C E G I S L L A Q N T S H H H H H H * * *
961	TGGTGAAGTG CGAGGGCATC AGCCTGCTGG CCCAGAACAC CAGCCACCAC CACCACC ACTGATGATA AGATCGGATC
	BamHI

1041 CTAGGCTTCC

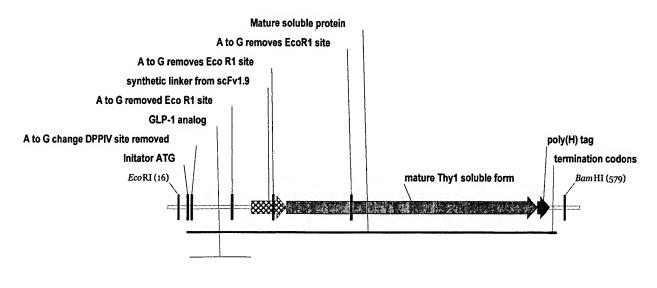


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FIGURE 4A

Egea Thy-1_Glucagon-Like Peptide 1 Non-Immunoglobulin Carrier Polypeptide



EgeaA42 GLP Thy1 Carrier 600 bp

FIGURE 4B

176 aa

- 1 MHGEGTFTSD VSSYLEGQAA KEFIAWLVKG RGGGGGSGGG GEFGGGGSQK
- 51 VTSLTACLVD QSLRLDCRHE NTSSSPIQYE FSLTRETKKH VLFGTVGVPE
- 101 HTYRSRTNFT SKYHMKVLYL SAFTSKDEGT YTCALHHSGH SPPISSQNVT
- 151 VLRDKLVKCE GISLLAQNTS HHHHHH

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FIGURE 4C

EcoR	1

			М	H G E	GTFT	S D V	S S Y	L E G Q
1	AGTCCGGGAT	TTAAGAATTC	AGCTGTCCAT	GCACGGTGAA	GGTACCTTCA (CCTCTGACGT T	ICTTCTTAC	CTGGAAGGTC
	· A A K	EFI	AWL	V K G R	G G G	G G S G	G G G	E F G
81	AGGCGGCGAA	AGAGTTCATC	GCGTGGCTGG	TTAAAGGTCG	TGGTGGTGGT (GGTGGTTCTG G	IGGTGGTGG	TGAGTTCGGT
	G G G	S Q K V	T S L	TACI	LVDQ	SLR	LDCR	HEN.
161	GGTGGTGGTT	CTCAGAAAGT	TACCTCTCTG	ACCGCGTGCC	TGGTTGACCA (STCTCTGCGT C	IGGACTGCC	GTCACGAAAA
	\cdot T S S	SPI	QYEF	SLT	RETK	K H V	L F G	T V G V
241	CACCTCTTCT	TCTCCGATCC	AGTACGAGTT	CTCTCTGACC	CGTGAAACCA A	AAAAACACGT TO	CTGTTCGGT	ACCGTTGGTG
	· P E H	TYR	SRT	N F T S	к у н	M K V L	Y L S	AFT
321	TTCCGGAACA	CACCTACCGT	TCTCGTACCA	ACTTCACCTC	TAAATACCAC A	ATGAAAGTTC TO	GTACCTGTC '	TGCGTTCACC
	S K D	E G T Y	T C A	LHHS	SGHS	PPIS	SSQN	V T V
101	TCTAAAGACG	AAGGTACCTA	CACCTGCGCG	CTGCACCACT	CTGGTCACTC T	CCGCCGATC TO	CTTCTCAGA	ACGTTACCGT
	·LRD	KLV	KCEG	I S L	LAQN	T S H	н н н	н н * *
181	TCTGCGTGAC	AAACTGGTTA	AATGCGAAGG	TATCTCTCTG	CTGGCGCAGA A	ACACCTCTCA CO	CACCACCAC	CACCACTGAT
		Baml	HI					
		~~~	~~~					

AATGAGATCT TGAGGCCGGA TCCGCTTAAG ATCCCGGCAA

	GATIAITCIA GACCGCGIT ACAIAACTIA CGGIAAAIGG CCCGCCIGGC IGACCGCCCA ACGACCCCCG CCCAITGACG ICAAIAAIGA CGIAIGITCC CTAATAAGAI CTGGGGGIA IGTATTGAAT GCCATTTAAC GGGGGAAACC ACTGGCGGG TCATAACAA ACTTAAAAAAAAAA	CTITICATION ACCOUNTS OF SECONDARY ANGESTAGE GAAAGGTAAC TACGGTAAAC GAAAGGTAAC TACGGTAAAC GAAAGGTAAC ATGCATTTAG	ACGCCCCCTA TTGACGTCAA TGACGGTAAA TGGCCCGCCT GGCATTATGC CCAGTACATG ACCTTATGGG ACTTTCCTAC TTGGCAGTAC ATCTACGTAT TGCGGGGGGAT AACTGCCAGTT ACTGCCATTT ACCGGGCGGA CCGTAATACG GGTCATGTAC TGGAATACCC TGAAAGGATG AACCGTCATG TAGATGCATA	TAGTCATCGC TATTACCATG GTGATGCGGT TTTGGCAGTA CATCAATGGG CGTGGATAGC GGTTTGACTC ACGGGGATTT CCAAGTCTCC ACCCCATTGA ATCAGTAGCG ATAATGGTAC CACTACGCCA AAACCGTCAT GTAGTTACCC GCACCTATCG CCAAACTGAG TGCCCCTAAA GGTTCAGAGG TGGGGTAACT	CGTCAAIGGG AGTITGIIIT GGCACCAAAA TCAACGGGAC TITCCAAAAI GICGTAACAA CICCGCCCCA IIGACGCAAA IGGGCGGIAG GCGTGIAACGG GCAGITACCC ICAAACAAAA CCGIGGIIII AGIIGCCCIG AAAGGIIIIA CAGCAIIGII GAGGCGGGGI AACTGCGTTT ACCGCCATC CGCAAAAAA	TGGGAGGICI AIAIAAGCAG AGCICICIGG CIAACIAGAA ICGAAATIAA IACGACICAC IAIAGGGAGA CCCAAGCIGG CIAGGGITIA AACIIAAGCI ACCCICCAGA IAIAIICGIC ICGAGAGACC GAIIGAICII AGCIIIAAII AIGCIGAGIG AIAICCCICI GGGIICGAAC GAICGCAAAI ITGAAIAGCI	GTGTGGTGGT TACGCGCAGC	CACTIGCCAG CGCCCTAGGG CCCGCTCCTT TCGCTTTCTT CCCTTCCTTT CTCGCCACGT TCGCCGGCTT TCCCCGTCAA GCTCTAAATC GGGGGCTCCC GTGAACGGTC GCGGGATCGC GGGCGAGGAA AGCGAAAGAA GGGAAGGAAA GAGCGGTGCA AGGGGCCGAA AGGGGCAGTT CGAGATTTAG CCCCCGAGGG	TTTAGGGTTC CGATTTAGTG CTTTACGGCA CCTCGACCCC AAAAAACTTG ATTAGGGTGA TGGTTCACGT AGTGGGCCAT CGCCCTGATA GACGGTTTTTT AAATCCCAAG GCTAAATCAC GAAATGCCGT GGAGCTGGGG TTTTTTGAAC TAATCCCACT ACCAAGTGCA TCACCCGGTA GCGGGACTAT CTGCCAAAAA	CGCCCTITGA CGITGGAGIC CACGITCTIT AATAGIGGAC ICTIGITCCA AACIGGAACA ACACICAACC CIAICICGGI CIAITCTITI GAITTATAAG
	GACCCGCGTT A	CCAATAGGGA CGTTATCCCT G	TTGACGTCAA T	TATTACCATG GATATATATATATATATATATATATATATATATATA	AGTTTGTTTT G TCAAACAAAA C	ATATAAGCAG A	CTCGGATCCA C	CGCCCTAGCG C	CCATTTAGTG C	CGTTGGAGTC C
13	GATTATTCTA	CATAGTAACG	ACGCCCCCTA TGCGGGGGAT	TAGTCATCGC ATCAGTAGCG	CGTCAATGGG	TGGGAGGTCT	TGGTACCGAG ACCATGGCTC	CACTTGCCAG	TTTAGGGTTC AAATCCCAAG	CGCCCTTTGA
pEgea M3	н	101	201	301	401	501	601	701	801	901

SV40 early promoter and origin T7 promoter/ RNA priming site neomycin resistance gene f1 origin CMV promoter pEgeaM3 4000 bp ribosome binding site bla promoter P3 SV40 early polyadenylation signal Beta-lactamase pUC origin

FIGURE 5

CUTCCCCOR AGGORGANI INTERCLOR CONTRACTOR THANDING ACCORDING GRANDSCOCCE AGGORGANIC AND ACCORDING		だけがなる 名を出げ	作用されてしてまれて	K DOED K THEFT			CGRAIIAAII	CIGIGGAATG	TGIGICAGII	#0010100W
CONTRIBUTION TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL STATEMENT OF CONTRIBUTION TOTAL TOTAL TOTAL TOTAL STATEMENT OF TOTAL TOTAL TOTAL STATEMENT OF TOTAL STAT	AAGTCCCCAG		AGGCAGAAGT	ATGCAAAGCA	TGCATCTCAR	TTTAAATTGC	GCTTAATTAA	GACACCTTAC	ACACAGTCAA	TCCCACACCT
CHINGTORADA ATTACACAG GACCACATAGT COCCOCCCCTA ACTOCCOCCCC AMOTOCCCC ANATOCCCC CONTRACTOR CHINGTON OF C	TTCAGGGGTC		TCCGTCTTCA	TACGTTTCGT	ACGTAGAGTT	AATCAGTCGT	TGGTCCACAC	CTTTCAGGGG	TCCGAGGGGT	GCAGGCAGAA
GENTITITY TRAITERING THEORETERY GENCEGARD CHARGED ATTICORAGE TRAINGGENG GENTITY TRAINED AND ATTICORAGE CHARGED AND CONTROL AUGGENG GENCEATHER TRAINED AND ATTICORAGE CHARGED THEORETERY CHARGED CHARGED AND CONTROL THEORETERY CHARGED CHARGED AND CONTROL THEORETERY CHARGED AND CONTROL THEORETERY CHARGED AND CONTROL THEORETERY CHARGED CHARGED AND CONTROL THEORETERY CHARGED CHARGED AND CONTROL THEORETERY CHARGED CHARGED CHARGED AND CONTROL THEORETERY CHARGED CHARGED AND CONTROL THEORETERY CHARGED CHA	GTATGCAAAG		AATTAGTCAG	CAACCATAGT	CCCGCCCCTA	ACTCCCCCCA	TCCCGCCCCT	AACTCCGCCC	AGTTCCGCCC	ATTCTCCGCC
GATTARABAA ANTAATROG AGGGGCGAG GCGGCCTCTG CCTCTGAGGT TATCGGAGAG TATGGGGGGG CTATTAGG CGAAAAACC GATTARABAA ANTAATROG AGGGGCGAG GCGGGGGCCAA TAAGGTCTTT ATTATATAGC CGGGGGGGGGG	CATACGTTTC		TTAATCAGTC	GTTGGTATCA	GGGCGGGGAT	TGAGGCGGGT	AGGGCGGGGA	TTGAGGCGGG	TCAAGGCGGG	TAAGAGGCGG
GRATIANDA MAINANCG STROGGSTC GGGGGGGAGG GGGGGGAGTCT TROGGGGGG TO GGADAGAC AGCTATUTC GGATAGAC AGCTAGACA AGATGATTC GATGAGATTC CACCAGACA AGATGATTC GATGAGACA GAGGGGAGGAG GAGGGATATC CACCAGACA AGATGATTC GGGGGATAGAC TOTAGAGCG GGGCGAACA AACACATTC GGCGGATAGAC TOTAGAGCG GGGCGAACA AACACATTC GGCGGATAGAC TOTAGAGCG GGGCGAACA AACACATTC GGCGGAACAC TOTAGAGCG GGGCGAACAC GGGGATAGAC GGGCGAACAC GGGGACACAC GGGGCAACAC GGGGCGAACAC GGGGCAACAC GGGGCAACAC GGGGCAACAC GGGGCAACAC GGGGCAACAC GGGGCGAACAC GGGGCGAACAC GGGGCGAACAC GGGGGCAACAC GGGGCAACAC GGGGCGAACAC GGGGGGGG	CCATGGCTGA		TTATTTATGC	AGAGGCCGAG	GCCGCCTCTG	CCTCTGAGCT	ATTCCAGAAG	TAGTGAGGAG	GCTTTTTGG	AGGCCTAGGC
TOGARDICATE AGCATAGORA TGATTAGORA AGATGANTE CACCAGAGORY COCCOGENCORY TOGARDAGOR AGATGANACA AGATGANACA AGATGANACA GAGGANAGORA AGATGANACA GAGGANAGORA AGATGANACA GAGGANAGORA AGATGANAGORA GAGGANAGORA GAGGANAGORA AGATGANAGORA GAGGANAGORA AGATGANAGORA GAGGANAGORA AGATGANAGORA GAGGANAGORA AGATGANAGORA GAGGANAGORA AGATGANAGORA AGATGANAGORA GAGGANAGORA AGATGANAGORA GAGGANAGORA AGATGANAGORA AGATGANAGORA GAGGANAGORA AGATGANAGORA GAGGANAGORA AGATGANAGORA GAGGANAGORA AGATGANAGORA A	GGTACCGACT		AATAAATACG	TCTCCGGCTC	CGGCGGAGAC	GGAGACTCGA	TAAGGICTIC	ATCACTCCTC	CGAAAAAACC	TCCGGATCCG
ACCORDITION ACCORDANCE COCCORDANCE GROCOGGOGO COCCOGNICA MACCORDINA ACCORDINATE TO COCCOMINA CONCOGNICA MACCORDINA ACCORDINATE TO COCCOMINA CONCOGNICA ACCORDINATE COCCOGNICA ACCORDINATE ACCOR	TTTTGCAAAA		TCGTTTCGCA	TGATTGAACA	AGATGGATTG	CACGCAGGTT	CICCGGCCGC	TTGGGTGGAG	AGGCTATICG	GCTATGACTG
TRITROGGGG GORGACTARG GOGGCAAAG GCGTCCCCGC GOGCCAACTTCT TTGTCAAAG ACCACACTTCT TTGTCAAAGC GOGGCAAAG GCGTCCCTCT GCGTCCCCGC GOGCCAAACTTCT GCGTCCCCCGC GOGCCAAACTTCT GCGTCCCCCAACTTCT GCGTCCCCCAACTTCT GCGTCCCCCCCCCC	AAAACGITIT		AGCAAAGCGT	ACTAACTTGT	TCTACCTAAC	GTGCGTCCAA	GAGGCCGGCG	AACCCACCTC	TCCGATAAGC	CGATACTGAC
TOTAL CONTRICTOR TOTAL AND TOTAL CONTRICTOR TOTAL CONTRICTOR TOTAL CONTRICTOR TOTAL CONTRICTOR TOTAL CONTRICTOR TOTAL CONTRICTOR CON	CCGTGTTGTC		GCICIGAIGC	CGCCGTGTTC	CGGCTGTCAG	CGCAGGGGCG	CCCGGTTCTT	TTTGTCAAGA	CCGACCTGTC	CGGTGCCCTG
TICTUGENCE TGGGGGGGG AND AGLACCORC GCAAGGAACG GCACGACCA AGTGCAACA GTGGCAACA GGGGGGAAGTAGG CGGGGGGAAGTAGG ATTCCTCTCTC ACTCCTCCGC AAAAGTATC CACTACGGC CAAACATGC CGGGGGCAAGTAGG CGGGGCGAAGTAGG CGGGCCAACTG TAAGACATGC AAGAGATGC CGGGCTACCC TAAGAGATGC CGGGCTACCC TAAGAGAGC CGGCTACCTCCG AAAAATAGC CACACTTAGGC CACACATGC CGGCCTACCC TAAGAGCACCT CACACAGCT AGGCCAGCT AGGCAGCT CACACAGCT CGGCCTACCC GCGGCTACCCGAGC CGGCCCAACACCT TGGGCCAGCT AGCCAGCT CACACAGCT CGGCCTACCG CGGCCAACACCT TGGGCAACACT TGGCCAGCT ACCAGGCC CGGCCCAACACCT CGGCCTACCACC CGCCTCCTACA CGGCCCAACACCT TGGCAACACCT CACACACCT CACACACCT CACACACCT CGGCCTACCACC CGCCTCCTACA CGGCTACCACCT CACACACCT CGGCCTACACCT CGGCCTACACCT CGGCCTACACCT CGGCCTACACCT CGGCCTACACCT CGGCCTACACCT CGGCCTACACACCT CGGCCTACACACCT TGGCCAACACCT TGGCAACACCT TGGCTACACCT CACACACCT CACACACCT CGGCCTACACACCT CGGCCTACACACCT CGGCCTACACACCT CGGCCTACACACACCT TCGCCACACACCT CGGCCTACACACACT TCGCCACACACCT CGGCCTACACACACCT CGGCCTACACACACACT TCGCCACACACACT TCGCCACACACACT TCGCCACACACACT TCGCCACACACACT TCGCCACACACACACT TCGCACACACACT TCGCACACACACT TCGCACACACACACT TCGCACACACACT TCGCACACACACT TCGCACACACACT TCGCACACACACT TCGCACACACACT TCGCACACACACT TCGCACACACACACT TCGCACACACACT TCGCACACACACT TCGCACACACACT TCGCACACACACT TCGCACACACACACACACACACACACACACACACACACAC	AATGAACTGC		AGCGCGGCTA	TCGTGGCTGG	CCACGACGGG	CGTTCCTTGC	GCAGCTGTGC	TCGACGTTGT	CACTGAAGG	GCCACGGGAC
GGGCCCTTCAC GCGGGGCAGA ATCTCCACTT GCTCCTGCC AGAAAGTATC CATCATAGG TGGGGGCC TOCCGGGC CAGACAGTAGG CCCGCTTCACA CACCAAGCAGA ATGAGGGCG TATCATAGG CCCGCTTCCACCA CACCAAGCAGA ATGAGGGCG TATCATAGG CCCGCTTCCAC GCCCATCCGA CACCAAGCGA ATGAGGCGC TAGCCCCACG GCGCCACG GCGCCACG GCGCCACG GCGCCACG GCGCCACG GCGCCACG GCGCCACG GCGCCACG GCGCCACG GCGCACGC TAGCCCCACG GCGCCACG GCGCCCACG GCGCCACG GCGCCACG GCGCCACG GCGCCACG GCGCCACG GCGCCACG GCGCCCACG GCGCCACG GCGCCACG GCGCCACG GCGCCACG GCGCCACG GCGCCACG GCGCCCACG GCGCCACG GCGCCACG GCGCCACG GCGCCACG GCGCCACG GCGCCACG GCCCACG GCGCCACG GCCCACG GCGCCACG GCCCACG GCCCACCACG GCCCACCACG GCCCACCACG GCCCACCACG GCCCACCACG GCCCACCACG GCCCACCACG GCCCACCACG GCCCACCACCACG GCCCACCACCACG GCCCACCACCACCACCACCACCACCACCACG GCCCCACCACCACCACCACCACCACCACCACCACCACCAC	TTACTTGACG		TCGCGCCGAT	AGCACCGACC	GGTGCTGCCC	GCAAGGAACG	CGTCGACACG	AGCTGCAACA	GTGACTTCGC	CCTTCCCTGA
CCGGGTTACA GGCCCGGTC TARAGGACAG TARAGTGGAA CGAGGACGGC TCTTCCATCGG ATAGATACAC CCGGGTACCT GCCCATTCAA CCACCAAAGGT TCGCAGGCG ATGATACTCGG ATGATACTCGG CGGGTACTCGG CGGTACTCGG CGGGTACTCGG CGGGGTACTCGG CGGGGTACTCGG CGGGGTACTCGG CGGGGTACTCGG CGGGGTACTCGG CGGGGTACTCGG CGGGGACTGC CGGGGGTACTCGG CGGGGACTGC CGGGGACTGC TCGGGGGACTCG TCGGGGACTCG TCGGGGACTGG CGGGGACTGC CGGGGACTGC CGGGGACTGC CGGGGACTGC CGGGGACTGC CGGGGACTGC CGGGGAAAGG CGGGGGAAAGG CGGGGGAAAGG CGGGGGAAAGG CGGGGGAAAGG CGGGGGAAAGG CGGGGGAAAGG CGGGGAAAGG CGGGGGAAAGG CGGGGGAAAGG CGGGGGAAAGG CGGGGGAAAGG CGGGGGGAAAGG CGGGGGAAAGG CGGGGGAAAGG CGGGGGAAAGG CGGGGGAAAGG CGGGGGAAAGG CGGGGGAAAGG CGGGGGAAAGG CGGGGGAAAGG CGGGGGAAAGG CGGGGGAAAGGAAACACACAC	GGCTGCTATT		CCGGGGCAGG	ATCTCCTGTC	ATCTCACCTT	GCTCCTGCCG	AGAAAGTATC	CATCATGGCT	GATGCAATGC	GGCGGCTGCA
GGCCGATIGGA GCCCATAGGG AAACATCGGA TCGAGCGAGG ACGTACTCCGA GTCTTCGGC GTCATTCCGA GGCCGATCGG GCCGATTCGA GGCCGATCGG TCGATGGGC TCGAGAGGCT GGCGCAACAGGC TCGAGAGCT TCGCAGGGCT GTCCGTAGGC TCGAGAGCT TCGAGGCC TCGAGAGCT TCGCAGGCT TCGGCAGG TCGCAGGCT TCGGCAGGT TCGCAGGCT TCGGCAGG TCGCAGGCT TCGGCAGG TCGCAGGCT TCGGCAGGCT TCGGGCAGG TCGGCAGGCT TCGGGCAGG TCGGCAGGCT TCGGGCGT TCGGGCAGG TCGGCAGGCT TCGGGCAGG TCGGCAGGCT TCGGGCAGG TCGGCAGGCT TCGGGCAGG TCGGCAGGCT TCGGGCAGG TGCGGCAGG TGGGGCAGG TGGGGCAGG TGGGGCAGG TGGGGCAGG TGGGGGGGGGG	CCGACGATAA		GGCCCCGTCC	TAGAGGACAG	TAGAGTGGAA	CGAGGACGGC	TCTTTCATAG	GTAGTACCGA	CTACGTTACG	CCGCCGACGT
GGCGGARGE GGGGATCGC TTGTAAGGT AGCTCGCTCG TGCATGAGC GCGAGGATCC GGGGAGGCCCA GGGGGATCGC TTGTAAGGCGC ATGCCCGAGG GGGGGAGTCC TCGTAGCCCAGGGGGCCCAGGCCCAGGCCTAGGCGCCAGGGGGGGCCCCAGGGGGGCCCCCAGGGGGCCCCCAGGGGCCCCCC	TACGCITGAT		GCCCATTCGA	CCACCAAGCG	AAACATCGCA	TCGAGCGAGC	ACGTACTCGG	ATGGAAGCCG	GTCTTGTCGA	TCAGGATGAT
TUCHARANCE CRASCOGGE CONTINUED ACCORAGE TATOGGGGCG CANGEGGCGA COCCOCANGE COCCAGGARIC COCCA	ATGCGAACTA		CGGGTAAGCT	GGTGGTTCGC	TTTGTAGCGT	AGCTCGCTCG	TGCATGAGCC	TACCTTCGGC	CAGAACAGCT	AGTCCTACTA
ANTIGUESTA GOGGETTATA TOGATICAS GITCUSCOS TACGGGGTG GOGGEGCTG GOGGGGCG TACGGGGC TACGGGGC TACGGGGC TACGGGGC TACGGGGC TACGGGGC TACGGGGC TACGGGCC TACGGCC TACGGCC TACGCCC TACGCC TACGCCC TACGCC TACGCT TACGCC TACGCC TACGCC TACGCC TACGCC TACGCC TACGCC TACGCC TACGCT TACGC	これのことのできる		SCI CGCGCCA	GCCGAACTGT	TCGCCAGGCT	CAAGGCGCGC	ATGCCCGACG	GCGAGGATCT	CGTCGTGACC	CATGGCGATG
TITICAGES AGCETTATA CONCRAMANCE CONCRAMANCE ACCIDANCE CONCRAMACE CONCRAMANCE C			こうちょうりょうこう	CGGCIIGACA	AGCGGICCGA	GITCGCGCG	TACGGGCTGC	CGCTCCTAGA	GCAGCACTGG	GTACCGCTAC
ATTGCTGAAG ACCTGGCGG CGAATGGGCT ACCCGTTC CTGTGCTTTA CGGTACCACA CUCCCAATA ATAGGCTAC TARACCACAA ATAGGCGCAA ATAGGCACAC ATAGGCGCAA ATAGGCCCC TAGCGCACAC ATAGGCCAA ATAGGCCCC TAGCGCACAC ATAGGCCAAA ATGGCAACAC ATAGGCCACA ATAGGCACAC ATAGGCCACA ATAGGCACAC ATAGGCACAC ATAGGCACAC ATAGGCCACA CAGGCGCAAAAATC CACTAGGCAA ATAGGCCCCAAAAAAATC CACTAGGCAA ATAGGCACAC ATAGGCACACAC ATAGGCACACAC ATAGGCACACAC ATAGGCACACAC ATAGGCACACAC ATAGGCACACAC ATAGGCACACAC ATAGGCACACAC ATAGGCACACAC ATAGGCACACACACACACACACACACACACACACACACAC	GGACGAACGG		CACCTTTTAC	CGGCGAAAAG	DIADITABLE SKIPS	2222424242	1919991355	GGCGGACCGC	TATCAGGACA	TAGCGTTGGC
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TITTCACTGC ATTCTAGTTG TGGTTTGTCATCA ATGTATCTTA TCATGTCTGT ATACCGTCGA CCTCTAGCTA AAAAGTGACG AAAAGTGAC AAAAGTGAC AAAAGTGAC TAGGATCAAAA AGGCCGCGTT GCTGGCGTTT TTCCATAGGC TCGCCCCCC GAGGGGGGGG AACGCTAAAA AGGCCGCGTT GCTGGCGTTT TTCCATAGGC TCGCCCCCC GAGGGGGGGGG CGAAACCCGA CAGGACTTTT TCCGGCGTT GCTGCGCTCC CAGGGGGGGGG CGTTTCGCG TTGCCTGTTA AAGATACCAG GCGTTTCCCC GGAAACCCGA CAGGACTTTT TCCGGCGTT TCTATGGTC CGCGTGGGC GCTTTCTCCC GGAAACCCGA CAGGACTTT TCTATGGTC CGCAAAGGG GACCTTCGAG GCTTTCTCCC GCAAAGGGG GACCTTCGAAAGGG GACCTTCGAG GCTTTCTCCC GCAAAGGGG GACCTTCGAG GCTTTCTCCC GCAAAGGGG GACCTTCGAAAGGG GACCTTCGAG GCTTTCTCCC GCAAAGAGG GACCTTCGAAAGGG GACCTTCGAG GCTTTCTCCC GCAAAGAGGC GCTTTCTCCC GCAAAGGGG GACCTTCGAG GCTTTCTCCC GCAAAGAGGG AACCCCTTCC GCAAAGAGGG AACCCCTTCC GCAAAGAGGG AACCCCTTCC GCTTCTCTCC GCTTTCTCCC GCTTTCCTCC GCTTTCTCCC GCTTTCTCCC GCTTTCTCCC GCTTTCTCCC GCTTTCTCCC GCTTTCTCCC GCTTTCTCCC GCTTTCTCCC GCTTTCTCCC GCTTTCCCCC GCTTTCCCC GCTTCCCCC GCTTCCCC GCTTCCCC GCTTCCCCC GCTTCCCC GCTTCCC GCTTCCCC GCTTCCCC GCTTCCCC GCTTCCC GCTTCCCC GCTTCCCC GCTTCCCC GCTTCCCC GCTTCCCC GCTTCCCC GCTTCCC GCTTCCCC GCTTCCCC GCTTCCCC GCTTCCCC GCTTCCCC GCTTCCCC GCTTCCCC GCTTCCCCCCC GCTTCCCC GCTTCCCCCCC GCTTCCCCCCCC	GCGGAAGAAC		GACTCGCCCT	GCGTGGGGTT	GAACAAATAA	CGTCGAATAT	TACCAATGIT	TATTTCGTTA	TCGTAGTGTT	TAAAGTGTTT
AAAGGCCAGG AACCGTAAA ACAGTATT TACATAGAAT AGTACAACA TATGGCAGCT GAGATCGAT AAAGGCCAGG AACCGTAAA AGCCGCAAA AAGGTATCC AGCGGGGGG ACTGCTGCT GACAAAATC TATACGCCCAGACCATTA TCGGGCGAA GGCGCGCAAA AAGGTATCC AGCGGGGGG ACTGCTCGTA GTGTTTTTAG GTTTCCCC TTGGCATTAT TCGGCGCAA GGCCGCAAAGGCG GAGCGGGGGG ACTGCTCGTC GTGCGCTCC GTTTCCCC TTGGCATATT TCTATGGTC GCCAAAGGGG GACCTTGAG TATCTCAGT GCTGGGACG GCTTTCCCC TTGGGAAGC GTGGCGTTT CTCATAGCT CGCTGTAGG TATCTCAGT GCTGGACGC GTGGGCCTT CCCTCATAGT TCCTATAGCT CGCTGTAGG TATCTCAGT GCTGGACGG GCTTTCCCC TTGGGGAAG GAGGCGCTT TCCATAGCT CAGGCACGC AGAGGGACA GCCCCCGTT CAGCCGCAAA GAGTATCGAA GACTTATCG GAAAAGGGG AAGCCCTTG ACCGCGAAA GAGGACAA GCCCCTTGATCC GGAAAGGGG AAGCCCTTG ACCGCGAAA GAGTATCTCAAAACGCT CAGCGCACC GCTGGGACGAGG ACCCCCCGTT CAGCCGCAAA AAGGTATCT CAAGACACC GGTAAGACAC TTGGCGGCAC GTGGGCCTT ATCCGGTAAC TATGGTCAACC GGTAAGACAC TTGGCGGCAC GTGGGCCTT ATCCGGTAAC TATGGTCAACC GGTAAGACAC TTGGCTGAAC GTGGGAAAAA GAGTTGATAG GTGGTGGCC TATGTGCCA ACCTAGAAG TTGGCGGCAAA GAGTTGATAG GTGGTAGG CCGTTTGTTT GGTGGCGACC ATCGCCAAAA TTGTCCTAAT GCAGACCTTTT TCCAAAAAAAACAAA CACCCCGTG ATGGCGACC ATCGCCAAAA TTGTCCTAAT GGTGGCGAAAAAAAAAAAAAAAAAAAAAA	TAMAGCATTT		ATTCTAGTTG	TGGTTTGTCC	AAACTCATCA	ATGTATCTTA	TCATGTCTGT	ATACCGTCGA	CCTCTAGCTA	ATGTGAGCAA
TITCCGGTCC TGGCGATT TCCGGCGCAA AAGGTATCCG AGCCGGGGG ACTGCTCGTA GTGTTTTTAG GGAAACCCGA CAGGCATTT TCCGGCGCAA CGACCGCAAA AAGGTATCCG AGCCGGGGG ACTGCTCGTA GTGTTTTTAG GGAAACCCGA CAGGGATTT TCCGGCGCAA CGACCGCGGG GACCGTCGGG CCTCGTGGCG GCTTTTGGGC TGCGGCATT TCCTATGGTC CGCGAAGGG GACCTTCGGG GACGCGGGGG GCTTTTGGCC TCCGGGAAAG GGGTTTCCCC CTGGAAGCCG AGAGGACGAG GCTTTCCCC TCGGGAAGG GTGCTTCCC ACGCTGTAG TCCCTGTT CGGTGTAGGT CGTTGGCTC GGAAAGAGGG AAGCCCTTC CACGCGAAA GAGTATCGAC TCGGACATCA GCCACATCC GGAAAGAGGG AAGCCCTTC CACGCGAAA GAGTATCGAC TACGGCTTG GTAAGACCC TCGGGAAGC GCGCGGAA TACCGGTAAC TACGGAAACCC GTAAGACCC GTAAGACCC TCGGGACGCAC GCTGCGCGAA TACCGGTAAC TACGGCTTG ACTCTGTG CTGAATAGC TCGGGGGCAA GCCCTTCC CATCGTAC TACCGGTAAC TCAGGTTGGG CCATTCTGTG CTGAATAGC TCGCCCCGTT CACCGCGAAA GAGTTGGTAC TCAGGAACCC GTAAGACCC ACCCGCTTG TGGGGGGCAA GCCCTTTATCC CATCGTACC TCAGGAACTTC CACCACCGC ACCCGCTTTTTC TCGCCCCGTT CGCCCGTAAA GAGTTGGTAG CTCTTGATC CGCCACCCGC ACCCGCTTTTTC TCGCCCCGTT CACCGGTAAA GAGTTGGTAG CTCTTGATC CGCCACCCGA TTGATGCCG ACCCGCAAA TTGTCCTAAT CGTCTCAAAAAGGA TCCTTTGATC TTTTTTTATC GGCGCGCTTT CACGGTAAA GAGTTCTTCATCAC TTTTTTTTTT	ATTICGIAAA		TAAGATCAAC	ACCAAACAGG	TTTGAGTAGT	TACATAGAAT	AGTACAGACA	TATGGCAGCT	GGAGATCGAT	TACACTCGTT
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ACCCCCCOTT CAGCCCGACC GETGGGCCTTA TATCGGTAAC TATCGGTTGA GECAAACCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	DESCRIPTA	_		**************************************	していりませいない こうこう	9000 10 1000 E	IAICICAGII	CGGIGIAGGI	Cellicectic	AAGCTGGGCT
TGGGGGGCAA GTGGGGCTGG CGACGCGGAA TAGGCCATTG ATAGCGGAAC TGGGTTGGG CCATTCTGTG CTGAATAGCG AACAGGATTA GCAGAGCGAG GTATGTAGG GGTGCTACAG AGTTCTTGAA GTCGGGTTGGG CCATTCTGTG CTGAATAGCG TTGTCCTAAT GCAGAGCGAG GTATGTAGG GGTGCTACAG AGTTCTTGAA GTCGTGGCCT AACTTCTGTG CTGAATAGCG CTCTGCTGAA GCCAGTTACC TTCGGAAAAA GAGTTGGTAG CTCTTGATCC GGCAAACAAA CCACCGCTGG TAGCGGTTTT GAGCGCTCT CGCTCAATGG AAGCCTTTTT CTCAACCATC GAGAACTAGG CCGTTGTTT GGTGGCGACC ATCGCCAAAA TACGCGCAGA AAAAAAGGAT CTCAAGAAGA TCCTTTGATC TTTTCTACGG GGTCTGACGC AGTCACCTTG CTTTTGGTCA ATGCGCGTCT TTTTTTCCTA GAGTTCTTCT AGGAAACTAG AAAAGATGCC CCAGACTGC GTGGAAACTAG CTCTTTGGTCA ATGCGCGTCT TTTTTTCCTA GAGTTCTTTC TCCATCGATA GTTGCCTGAC CCCGTCGT GTAGATAACT ACGATACGGG CCGTGGATAG AGTCCTTTCG TCCATCCATA GTTGCCTGAC GAGGGCCGC CCGTGGATAG AGTCCTTCCATA GTTGCCTGAC AGGGCCGC GTAGATACGGG CCGTGGATAG AGTCCTTATTTCG TCCATCCATA GTTGCCTGAC GAGGGCCGC AGTGCTCGAC AGGCCCACG TCCACCGGC CCTGGGTCGC CTGCTATTGTC AGTGCTCCACCCCACG TCTCCCGGC CTTGCCTGAC AGGCCCGAC AGTGCCCCACG TCTCACCCACG TCCCCGGC CTTCCCGGC CTTCCCGGCT ACTCACACCCCACCCC TCCCCGCCCACG TCTCACTATTTG GTCGCTCGC CTTCCCGGCT ACTCACACCCCACCCCACG TCTCCCCGCC CTTCCCGCTCCT AGTACCCCGC CTTCCCCGGCT ACTCACTCCACCCACCCCACG TCTCCCCGCCCACG TCTCTATTTTG GTCGCTCGC GAAGGCCCCC ACTCACTACTCCCCCCCACCCCCACG TCTCCCCGCCCCACCCCCCCCCC	GTGTGCACGA		CAGCCCGACC	GCTGCGCCTT	ATCCGGTAAC	TATOGETETE	ACTOOPSOCO	GCCACATCCA	GCAAGCGAGG	Tregaceed
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GAGACCATT CGGTCAATGG AAGCCTTTTT CTCAACCATC GAGAACTAGG CCGTTTGTTT GGTGGCGACC ATCGCCAAAA TACGCGCAGA AAAAAAGGAT CTCAAGAAGA TCCTTTGATC TTTTCTACGG GGTCTGACGC TCAGTGGAAC GAAAACCAGT ATGCGCGTCT TTTTTCCTA GAGTTCTTCT AGGAAACTAG AAAAGATGCC CCAGACTGCG AGTCACCTTG CTTTTGGTCA GGCACCTATC TCAGCGATCT GTCTTATTTCG TTCATCCATA GTTGCCTGAC TCCCCGTCGT GTAGATAACT ACGATACGGG CCGTGGATAG AGTCGCTAGA CAGATAAAAGC AAGTAGGTAT CAACGGACTG AGGGCCAGCA TGCTATTGA TGCTTATTGA TGCTTATTGA TGCTTATTGA TGCTTATTGA TGCTTATTGA GAGGGCCGA AGTGGCTGCAA GATGGCCGAG AGTCCCCAGG TCCTAAATAAC CAGCCAGCG GAAGGGCCGA AGTGCTCAACCAGC TCACCGGCTC CAGATTAATTG TCGTTATTTTG GTCGGTCGGC TTCCCCGGCT	GGTATCTGCG		GCCAGTTACC	TTCGGAAAAA	GAGTTGGTAG	CTCTTGATCC	GGCAAACAAA	CCACCGCTGG	TAGCGGTTTT	TTTGTTTGCA
TACGEGEGET TITITICETA GAGTICITIGATE TITICIACGG GGICTGACGG TCAGTGGAAC GAAAACCAGT ATGCGCGTCT TITITICETA GAGTICITIC AGGAACTAG AAAAGATGCC CCAGACTGCG AGTCACCTTG CTITITGGTCA GGCACCTATC TCAGCGATCT GTCTATITICG TICATCCATA GTTGCCTGAC TCCCCGTCGT GTAGATAACT ACGATACGGG CCGTGGATAG AGTCGCTAGA CAGATAAAGC AAGTAGGTAT CAACGGACTG AGGGCCACC CATCTATTGA TGCTATGCCC AGTGCTGCAA TGATACCGCG AGACCCACGC TCACCGGCTC CAGATTTATC AGCAATAAAAC CAGCCAGCG GAAGGGCCGA AGTGCCCGAG AGGCCCACGC TCACCGGCTC CAGATTTATTC AGCAATAAAAC CAGCCAGCG CTTCCCGGGCT ACTACACACCACCC CACTGGGTCGA AGTGCCCCAGG GTCAATAATTG TCGTTATTTG GTCGGTCGGC CTTCCCGGCTC	CCATAGACGC		CGGTCAATGG	AAGCCTTTTT	CTCAACCATC	GAGAACTAGG	CCGTTTGTTT	GGTGGCGACC	ATCGCCAAAA	AAACAAACGT
AIGUGUGUT TITITICIA GACTICITICA AGGAACTAG AAAAGAIGCC CCAGACTGCG AGTCACCTIG CITITIGGICA GGCACCTAIC TCAGCGAICT GTCTAITITICG TICATCCATA GTTGCCTGAC TCCCCGTCGT GTAGAIAACT ACGAIACGGG CCGTGGAIAG AGTCGCTAGA CAGAIAAAAGC AAGTAGGTAT CAACGGACTG AGGGCCAGCA CATCTAITIGA TGCTAIGCCC AGTGCTGCAA TGATACCGCG AGACCCACGC TCACCGGCTC CAGAITTAIC AGCAATAAAC CAGCCAGCG GAAGGGCCGA AGTGGCCGAA GATGGCCCGAG GTGCCCAGG TCCTAATAAC CAGCCAGCC CATCCCGGCT CTCTAATGCGCC CTCTGGGTCGA AGTGCCCAGA GTCTAAATAG TCGTTATTTG GTCGGTCGGC CTTCCCGGCT	AGCAGCAGAT		AAAAAAGGAT	CTCAAGAAGA	TCCTTTGATC	TTTTCTACGG	GGTCTGACGC	TCAGTGGAAC	GAAAACCAGT	TACCAATGCT
GGLACLIAIC ICAGCGAICI GICIAITICG TICAICCATA GIIGCCIGAC ICCCCGICGI GIAGAIAACI ACGAIACGGG CCGIGGAIAG AGTCGCIAGA CAGAIAAAGC AAGTAGGIAI CAACGGACTG AGGGCCAGCA CAICTAITGA IGCTAIGCCC AGTGCTGCAA IGAIACCGCG AGACCCACGC ICACCGGCTC CAGAITIAIC AGCAAIAAAAC CAGCCAGCCG GAAGGGCCGA AGTGCCCCGAG AGTGCCCCGAG AGTGCCCGAG ICCTAAAIAAC CTATAIGCGCT CACTGGGGCG ICTGGGGGGC CTTCCCGGGCT	TCGTCGTCTA		TTTTTCCTA	GAGTICTICI	AGGAAACTAG	AAAAGATGCC	CCAGACTGCG	AGTCACCTTG	CTTTTGGTCA	ATGGTTACGA
CUSIGNATAS ASTUGUTAGA CACATAAAGC AAGTAGGTAT CAACGGACTG AGGGGCAGCA CATCTATTGA TGCTATGCCC AGTGCTGCAA TGATACCGCG AGACCCACGC TCACCGGCTC CAGATTATC AGCAATAAAAC CAGCCAGCCG GAAGGGCCGA AGTGCCCGAG AGTGCCCGAG AGTGCCCGAG TCCTAAATAG TCGTTATTTG GTCGGTCGGC CTTCCCGGCT ACTACAACACTT ACTATGCCGC TCTGGGTCGAG AGTGCCCGAG GTCTAAATAG TCGTTATTTG GTCGGTCGGC CTTCCCGGCT	IAAICAGIGA		TCAGCGATCT	GTCTATTTCG	TTCATCCATA	GTTGCCTGAC	TCCCCGTCGT	GTAGATAACT	ACGATACGGG	AGGGCTTACC
AGIBELISCAA ISAIACCSCS ASACCCASSC ICACCSSCTC CASAITIAIC ASCAATAAAC CASCCASCCS SAAGGGCCGA ( TACGAGCGT ACTATGGCGC TUTGGGGGCG ASTGCCGA STATATAAIAA TOTATATG TUTTATTG TUGGTCGGC CTTUCCGGGT ( TTATATATACCA TUTGGGGGC CTTGGGGGC CTTCCCGGGT ( TTATATATACCA THE TATATACA TUTGGGGGC CTTCCCGGGT ( TTATATATACACA THE TATATACACA TUTGGGGGC CTTCCCGGGT ( TTCCACACACACA THE TATATACACA TUTGGGGGC CTTCCCGGGT ( TTCCACACACACACACACACACACACACACACACACACA	ATTAGLCACT		AGTCGCTAGA	CAGATAAAGC	AAGTAGGTAT	CAACGGACTG	AGGGGCAGCA	CATCTATTGA	TGCTATGCCC	TCCCGAATGG
TLAUGACOLI ACIAIGECCE TETEGGIFECE AFTEGECCEA STETTATITE TETETATITE GICGETCEC CTTCCCGGCT (	ATCTGGCCCC		TGATACCGCG	AGACCCACGC	TCACCGGCTC	CAGATTTATC	AGCAATAAAC	CAGCCAGCCG	GAAGGGCCGA	GCGCAGAAGT
	1AGACCGGGG	CHUGACGIT	ACTATGGCGC	TCTGGGTGCG	AGTGGCCGAG	GTCTAAATAG	TCGTTATTTG	GTCGGTCGGC	CTTCCCGGCT	CGCGTCTTCA

# FIGURE 5 CONT.

	CCAGGACGIT	CCAGGACGIT GAAATAGGCG		AGATAATTAA	CAACGGCCCT	GAGGTAGGIC AGATAATTAA CAACGGCCCT TCGATCTCAT TCATCAAGCG GTCAATTATC AAACGCGTTG CAACAACGGT	TCATCAAGCG	GICAATTAIC	AAACGCGTTG	CAACAACGGT
3401	TTGCTACAGG	TTGCTACAGG CATCGTGGTG		CGTTTGGTAT	GGCTTCATTC	TCACGCTCGT CGTTTGGTAI GGCTTCATTC AGCTCCGGTT CCCAACGATC AAGGCGAGTI ACATGATCCC CCAIGTTGTG	CCCAACGATC	AAGGCGAGTT	ACATGATCCC	CCATGTTGTG
	AACGATGTCC	AACGATGTCC GTAGCACCAC		GCAAACCATA	CCGAAGTAAG	AGTGCGAGCA GCAAACCATA CCGAAGTAAG TCGAGGCCAA GGGTTGCTAG TTCCGCTCAA TGTACTAGGG GGTACAACAC	GGGTTGCTAG	TTCCGCTCAA	TGTACTAGGG	GGTACAACAC
3501	CAAAAAAGCG	CAAAAAGCG GTTAGCTCCT	_	GATCGTTGTC	AGAAGTAAGT	TCGGTCCTCC GAICGTIGTC AGAAGTAAGT IGGCCGCAGT GTTAICACTC AIGGTTAIGG CAGCACTGCA IAATTCTCTT	GTTATCACTC	ATGGTTATGG	CAGCACTGCA	TAATTCTCTT
	GTTTTTCGC	STITITICGC CAATCGAGGA		CTAGCAACAG	TCTTCATTCA	AGCCAGGAGG CTAGCAACAG TCTTCATTCA ACCGGCGTCA CAATAGTGAG TACCAATACC GTCGTGACGT ATTAAGAGAA	CAATAGTGAG	TACCAATACC	GTCGTGACGT	ATTAAGAGAA
3601	ACTGTCATGC	ACTGTCATGC CATCCGTAAG		GTGACTGGTG	AGTACTCAAC	AIGCITITICI GIGACIGGIG AGIACICAAC CAAGICAITC IGAGAAIAGI GIAIGCGGCG ACCGAGIIGC ICIIGCCCGG	TGAGAATAGT	GTATGCGGCG	ACCGAGTTGC	TCTTGCCCGG
	TGACAGTACG	TGACAGTACG GTAGGCATTC	-	CACTGACCAC	TCATGAGTTG	TACGAAAAGA CACTGACCAC TCATGAGTTG GTTCAGTAAG ACTCTTATCA CATACGCCGC TGGCTCAACG AGAACGGGCC	ACTCTTATCA	CATACGCCGC	TGGCTCAACG	AGAACGGGCC
3701	CGTCAATACG	CGTCAATACG GGATAATACC	_	GCAGAACTTT	AAAAGTGCTC	SCGCCACATA GCAGAACTTT AAAAGTGCTC ATCATTGGAA AACGTTCTTC GGGGCGAAAA CTCTCAAGGA TCTTACCGCT	AACGTTCTTC	GGGGCGAAAA	CTCTCAAGGA	TCTTACCGCT
	GCAGTTATGC	GCAGTTATGC CCTATTATGG	_	CGTCTTGAAA	TTTTCACGAG	GCGGGTGTAI CGTCTTGAAA ITTTCACGAG TAGTAACCTI TIGCAAGAAG CCCCGCTTTT GAGAGTICCT AGAAIGGCGA	TTGCAAGAAG	CCCCGCTTTT	GAGAGTICCT	AGAATGGCGA
3801	GTTGAGATCC	GTTGAGATCC AGTTCGATGT		TGCACCCAAC	TGATCTTCAG	AACCCACTCG IGCACCCAAC IGAICTICAG CAICTITIAC ITICACCAGC GITICIGGGI GAGCAAAAAC AGGAAGGCAA	TTTCACCAGC	GTTTCTGGGT	GAGCAAAAAC	AGGAAGGCAA
	CAACTCTAGG	CAACTCTAGG TCAAGCTACA		ACGTGGGTTG	ACTAGAAGTC	TIGGGIGAGC ACGIGGGIIG ACTAGAAGIC GIAGAAAAIG AAAGIGGICG CAAAGACCCA CICGIIIIIG ICCIICCGII	AAAGTGGTCG	CAAAGACCCA	CTCGTTTTG	TCCTTCCGTT
3901	AATGCCGCAA	AATGCCGCAA AAAAGGGAAT		CGGAAATGTT	GAATACTCAT	AAGGGCGACA CGGAAATGIT GAATACICAI ACICIICCII IIICAAIAII AIIGAAGCAI IIAICIAGAG GIIAIIGICI	TITCAAIAII	ATTGAAGCAT	TTATCTAGAG	GTTATTGTCT
	TTACGGCGTT	TTACGGCGTT TTTTCCCTTA		GCCTTTACAA	CTTATGAGTA	TTCCCGCTGT GCCTTTACAA CTTATGAGTA TGAGAAGGAA AAAGTTATAA TAACTTCGTA AATAGATCTC CAATAACAGA	AAAGTTATAA	TAACTTCGTA	AATAGATCTC	CAATAACAGA

# FIGURE 5 CONT.

oligo F12 - bad synthesis

ColE1

pEgeaQ6 1750 bp

beta lactamase cds

C1285T

Prokaryotic promoter MCS cloning sites

beta lactamase promoter A1600G terminator T330C pBM1 origin of replication

RNase H Cleavage

trpA T806C

> 201 201 301 401 501 701 801

ATCGAATTCG	PAGCTTAAGC	recrectrec	ACGACGAACG	GCAGATACC	SCGTCTATGG	ACCAGTGGCT	regreaces	rcgrecacac	AGCACGTGTG	GGACAGGTA	SCCTGTCCAT	CACCTCTGA	SGTGGAGACT	CATTAGGCGG	STAATCCGCC	FAACTACGAT	ATTGATGCTA	AGCCGGAAGG	TCGGCCTTCC
AGTGCTCTAG ACCTGTTGAC AATTAATCAT GGGCTGGTAT AATGTGTGGA ATTGTGAGCG GATAACAATT TCACACAGGA AACAGGATCG ATCGAATTCG	TTAATTAGTA GCCGAGCATA TTACACACCT TAACACTCGC CTATTGTTAA AGTGTGTCCT TTGTCCTAGC TAGCTTAAGC	AG CCAIGGCCCG GGIGAATAAI TAGAAAAGAI CAAAGGAICI ICTIGAGAIC CITITIICI GCGCGIAAIC IGCIGCIIGC	CCACTIAITA AICTITICIA GITICCIAGA AGAACTCIAG GAAAAAAAA CGCGCAITAG ACGACGAACG	TITGIIIGCC GGAICAAGAG CIACCAACTC TITITCCGAA GGIAACTGGC ITCAGCAGAG CGCAGAIACC	FITGITITIT IGGIGGCGAI GGICGCCACC AAACAAACGG CCTAGIICIC GAIGGIIGAG AAAAAGGCII CCAIIGACCG AAGICGICIC GCGICIAIGG	AAATACTGTI CITCTAGIGI AGCCGIAGII AGGCCACCAC ITCAAGAACI CIGIAGCACC GCCIACAIAC CICGCICIGC IAAICCIGII ACCAGIGGCI	ITTATGACAA GAAGATCACA TCGGCATCAA TCCGGTGGTG AAGTTCTTGA GACATCGTGG CGGATGTATG GAGCGAGACG ATTAGGACAA TGGTCACCGA	GCTGCCAGTG GCGATAAGTC GTGTCTTACC GGGTTGGACT CAAGACGATA GTTACCGGAT AAGGCGCAGC GGTCGGGCTG AACGGGGGGT TCGTGCACAC	CGACGGICAC CGCTATICAG CACAGAAIGG CCCAACCIGA GIICIGCIAI CAAIGGCCIA IICCGCGICG CCAGCCCGAC IIGCCCCCCA AGCACGIGIG	AGCCCAGCIT GGAGCGAACG ACCTACACCG AACTGAGATA CCTACAGCGI GAGCTAIGAG AAAGCGCCAC GCTTCCCGAA GGGACAAAGG CGGACAGGTA	ICGGGICGAA CCICGCIIGC IGGAIGIGGC IIGACICIAI GGAIGICGCA CICGAIACIC IIICGCGGIG CGAAGGGCII CCCIGIIICC GCCIGIACAA	ICCGGTAAGC GGCAGGGTCG GAACAGGAGA GCGCACGAGG GAGCTICCAG GGGGAAACGC CIGGIAICTI IAIAGICCIG ICGGGIIICG CCACCICIGA	ATATCAGGAC AGCCCAAAGC GGTGGAGACT	IG AIGCICGICA GGGGGGGGG GCCIAIGGAA AAACGCCAGC AACGCGGCCI IITIACGGII CCIGCCCGCI CAITAGGCGG	GAACTCGCAG CTAAAAACAC TACGAGCAGT CCCCCGCCT CGGATACCTT TTTGCGGTCG TTGCGGCGGA AAATGCCAA GGACGGGCGA GTAATCCGCC	GCTATTACCA AIGCTTAATC AGTGAGGCAC CTAICTCAGC GAICTGICTA TITCGTICAI CCAIAGCIGC CIGACICCC GICGIGIAGA IAACIACGAI	CGATAATGGT TACGAATTAG TCACTCCGTG GATAGAGTCG CTAGACAGAI AAAGCAAGTA GGTATCGACG GACTGAGGGG CAGCACATCT ATTGATGCTA	ACGGGAGGG TTACCATCTG GCCCCAGTGC TGCAATGATA CCGCGAGACC CACGCTCACC GGCTCCAGAT TTATCAGCAA TAAACCAGCC AGCCGGAAGG	ATTTGGTCGG 1
TCACACAGGA	AGTGTGTCCT	CTTTTTTCT	GAAAAAAGA	GGTAACTGGC	CCATTGACCG	CICGCICIGC	GAGCGAGACG	GGTCGGGCTG	CCAGCCCGAC	GCTTCCCGAA	CGAAGGGCTT	TATAGTCCTG	ATATCAGGAC	TTTACGGTT	AAAATGCCAA	CTGACTCCCC	GACTGAGGGG	TTATCAGCAA	AC CGGGGTCACG ACGTIACIAI GGCGCTCTGG GTGCGAGTGG CCGAGGTCTA AATAGTCGTT ATTTGGTCGG
GATAACAATT	CTATTGTTAA	TCTTGAGATC	AGAACTCTAG	TTTTCCGAA	AAAAAGGCTT	GCCTACATAC	CGGATGTATG	AAGGCGCAGC	TTCCGCGTCG	AAAGCGCCAC	TTTCGCGGTG	CTGGTATCTT	AGGCCATICG CCGICCCAGC CIIGICCICI CGCGIGCICC CICGAAGGIC CCCCTIIGCG GACCAIAGAA	AACGCGGCCT	TTGCGCCGGA	CCATAGCTGC	GGTATCGACG	GGCTCCAGAT	CCGAGGTCTA
ATTGTGAGCG	TAACACTCGC	CAAAGGATCT	GTTTCCTAGA	CTACCAACTC	GATGGTTGAG	CTGTAGCACC	GACATCGTGG	GTTACCGGAT	CAATGGCCTA	GAGCTATGAG	CTCGATACTC	GGGGAAACGC	CCCCTTTGCG	AAACGCCAGC	TTTGCGGTCG	TTTCGTTCAT	AAAGCAAGTA	CACGCTCACC	GTGCGAGTGG
AATGTGTGGA	TTACACACCT	TAGAAAAGAT	ATCTTTTCTA	GGATCAAGAG	CCTAGTTCTC	TTCAAGAACT	AAGTTCTTGA	CAAGACGATA	GTTCTGCTAT	CCTACAGCGT	GGATGTCGCA	GAGCTTCCAG	CTCGAAGGTC	GCCTATGGAA	CGGATACCTT	GATCTGTCTA	CTAGACAGAT	CCGCGAGACC	GGCGCTCTGG
CGGCTCGTAT	GCCGAGCATA	GGTGAATAAT	CCACTTATTA	TTTGTTTGCC	AAACAAACGG	AGGCCACCAC	TCCGGTGGTG	GGGTTGGACT	CCCAACCTGA	AACTGAGATA	TIGACICIAI	GCGCACGAGG	CGCGTGCTCC	GGGGGGCGGA	CCCCCCCCCCT	CTATCTCAGC	GATAGAGTCG	TGCAATGATA	ACGTTACTAT
AATTAATCAT	TTAATTAGTA	CCATGGCCCG	CTAGGITCGA ACTCGAGCIC GGIACCGGGC	AAACAAAAA ACCACCGCTA CCAGCGGTGG	GGTCGCCACC	AGCCGTAGTT	TCGGCATCAA	GTGTCTTACC	CACAGAATGG	ACCTACACCG	TGGATGTGGC	GAACAGGAGA	CTTGTCCTCT	ATGCTCGTCA	TACGAGCAGT	AGTGAGGCAC	TCACTCCGTG	GCCCCAGTGC	CGGGGTCACG
ACCIGITGAC	CACGAGATC TGGACAACTG	TGAGCTCGAG	ACTCGAGCTC	ACCACCGCTA	TGGTGGCGAT	CTTCTAGTGT	GAAGATCACA	GCGATAAGTC	CGCTATTCAG	GGAGCGAACG	CCTCGCTTGC	GGCAGGGTCG	CCGTCCCAGC	GATTTTTGTG	CTAAAAACAC	ATGCTTAATC	TACGAATTAG	TIACCAICIG	AATGGTAGAC
AGTGCTCTAG	TCACGAGATC	GATCCAAGCT TGAGCTCG	CTAGGTTCGA	AAACAAAAA	TTTGTTTTT	AAATACTGTT	TTTATGACAA	GCTGCCAGTG	CGACGGTCAC	AGCCCAGCTT	TCGGGTCGAA	TCCGGTAAGC	AGGCCATTCG	CTTGAGCGTC GATTTTTGI	GAACTCGCAG	GCTATTACCA	CGATAATGGT	ACGGGAGGGC	TGCCCTCCCG AATGGTAGA
Н																			

1001	GCCGAGCGCA	GAAGTGGTCC	GCCGAGCGCA GAAGTGGTCC TGCAACTTTA TCCGCCTCCA TCCAGTCTAT TAATTGTTGC CGGGAAGCTA GAGTAAGTAG TTCGCCAGTT AATAGTTTGC CGGCTCGCGT CTTCACCAGG ACGTTGAAAT AGGCGGAGGT AGGTCAAATA ATTAAAAAACAA CACATTAAAAA GAGTAAAAAAAAAA	TCCGCCTCCA	TCCAGTCTAT	TAATTGTTGC	CGGGAAGCTA	GAGTAAGTAG	TTCGCCAGTT	AATAGTTTGC
1101	GCAACGTTGT	TGCCATTGCT	GCAACGITGI IGCCATIGCT ACAGGCAICG IGGIGICACG CICGICGITII GGIAIGGCIT CAIICAGCTC CAGITCAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	TGGTGTCACG	CTCGTCGTTT	GGTATGGCTT	CATTCAGCTC	CGGTTCCCAA	AAGCGGTCAA	TTATCAAACG
	CGTTGCAACA	ACGGTAACGA	COTTGCAACA ACGGTAACGA TGTCCGTAGC ACCACAGTGC GAGCAGCAAA CCATACCGAA GTAAGTCGAG GCCAAGGGTT GCTAGTTCG CTCAAAACAA	ACCACAGIGC	GAGCAGCAAA	CCATACCGAA	GTAAGTCGAG	GCCAAGGGTT	CTAGTTOC	つれたびまべんびまし
1201	ATCCCCCATG	TTGTGCAAAA	ATCCCCCAIG TIGTGCAAAA AAGCGGTTAG CTCCTTCGGT CCTCCGAICG TIGTCAGAAG TAAGTTGGCC GCAGTGTTAT CACTCATGGT TAAGAGTAGCC	CTCCTTCGGT	CCTCCGATCG	TTGTCAGAAG	TAAGTTGGCC	GCAGTGTTAT	しつうしょうけいない	
	TAGGGGGTAC	AACACGTTTT	PAGGGGTAC AACACGITIT TICGCCAAIC GAGGAAGCCA GGAGGCTAGC AACAGICTIC AITCAACCGG CGTCACAATA GTGATACCAAAAAAAAAAAA	GAGGAAGCCA	GGAGGCTAGC	AACAGTCTTC	ATTCAACCGG	CGTCACATA	ADDATE ADTE	いったっつつではな
1301	CTGCATAATT	CTCTTACTGT	CTGCATAATT CTCTTACTGT CATGCCATCC GTAAGAIGCT TITCTGTGAC TGGTGAGTAC TCAACCAAGT CATTCTGAGA ATACCATACA	GTAAGATGCT	TTTCTGTGAC	TGGTGAGTAC	TCAACCAAGT	CATTOTTAD	TACTOTO TO	たりして かりつせませ
	GACGTATTAA	GAGAATGACA	GACGIAITAA GAGAAIGACA GIACGGIAGG CAIICIACGA AAAGACACIG ACCACICAIG AGTIGGTICA GIAGACACTIC TAILCACATA CACACATACA	CATTCTACGA	AAAGACACTG	ACCACTCATG	AGTTGGTTCA	TOTORDARTS	מעדיה מחדים	よりつよりつりりつ
1401	GITGCICITG	CCCGGCGTCA	GTTGCTCTTG CCCGGCGTCA ATACGGGATA ATACCGCGCC ACATAGCAGA ACTTTAAAAG TGCTCATCAT TGCAAAAAGT TGCAAAAAAAAAA	ATACCGCGCC	ACATAGCAGA	ACTITAAAAG	TGCTCATCAT	TOTORAGEDEL	CECECOLLECT	したりました。それをして
	CAACGAGAAC	GGGCCGCAGT	CAACGAGAAC GGGCCGCAGT TATGCCCTAT TATGGCGCGG TGTATCGTCT TGAAATTTTTC ACGAGATATT ACCAGATATT ACCAGATATAT ACCAGATATAT ACCAGATATATA ACCAGATATATATA ACCAGATATATA ACCAGATATATATA ACCAGATATATATATATATATATATATATATATATATATA	TATGGCGCGG	TGTATCGTCT	TGAAATTTTC	ACGAGTAGTA	A COLUMNICA	2000001121	
1501	AAGGATCTTA	CCGCTGTTGA	AAGGATCTTA CCGCTGTTGA GATCCAGTTC GATGTAACCC ACTCGTGCTC CCAACTGATC TTCAGGATCT TTTAACTTTT C CCAACTGATC TCACTCACTC TCACTCACTC TCACTCACTC TTTAACTTC TCACTCAC	GATGTAACCC	ACTCGTGCTC	CCAACTGATC	TTCAGCATCT	TTTACTTCA		0404011110 400404000
	TTCCTAGAAT	GGCGACAACT	TICCTAGAAT GGCGACAACT CTAGGTCAAG CTACATTGGG TGAGCACGAG GGTTGACTAG AAGTCGTAGA AATGAAAGT GGTTGAAACA	CTACATTGGG	TGAGCACGAG	GGTTGACTAG	AAGTCGTAGA	TOGGGGTGG	フェーランクピンン	#35#5#5550 #35#5#5#555
1601	AAAACAGGAA	GGCAAAATGC	AAAACAGGAA GGCAAAATGC CGCAAAAAAAG GGAATAAGGG CGACACGGAA AIGITGAATA CTCATACTCT TCTTTTTTTT ATATATATA ACACAGGAA GGCAAAAAAAG GGAATAAGGG CGACACGGAA AIGITGAATA CTCATACTCT TCTTTTTTTTT ATATATATA ACACACTATATATA	GGAATAAGGG	CGACACGGAA	ATGTTGAATA	CTCATACTC	TOUTTHEOD	ACT-TAT-TAT-A	ACCCACICGI
	TITIGICCII	CCGTTTTACG	TITIGICCII CCGIIIIACG GCGIIIIIIC CCIIAIICCC GCIGIGCCII IACAACIIAI GAGIAAIAAAAAAAAAA	CCTTATTCCC	GCTGTGCCTT	TACAACTTAT	GAGTATGAGA	AGGAAAAGT	TOTATETATE	
1701	AGGGTTATTG	TCTCATGAGC	AGGGTTATTG TCTCATGAGC GGATACATAT TTGAATGTAT CTAGAAGGTA	TTGAATGTAT	CTAGAAGGTA				100000000000000000000000000000000000000	DUTUUT DOT
	TCCCAATAAC	AGAGTACTCG	TCCCAATAAC AGAGTACTCG CCTATGTATA AACTTACATA GATCTTCAT	AACTTACATA	けることはいいない					

FIGURE 6 CONT.